

DYNAMIC RESOURCE ALLOCATION SYSTEMS AND METHODS

ABSTRACT OF THE DISCLOSURE

Systems and methods are disclosed for facilitating dynamic resource allocation in
5 a limited memory environment. In one embodiment, a master code image is created that
includes one or more alternative implementations of an interface. When it is determined
that a particular implementation of the interface is desired, the alternative
implementations are removed from the master code image, and the resulting code image
is compiled. The program is then used to process network traffic. If a condition is
10 subsequently detected that could be handled more efficiently by one of the alternative
interface implementations, the process can be repeated, and the resulting program used to
process further network traffic.